

Figure 2

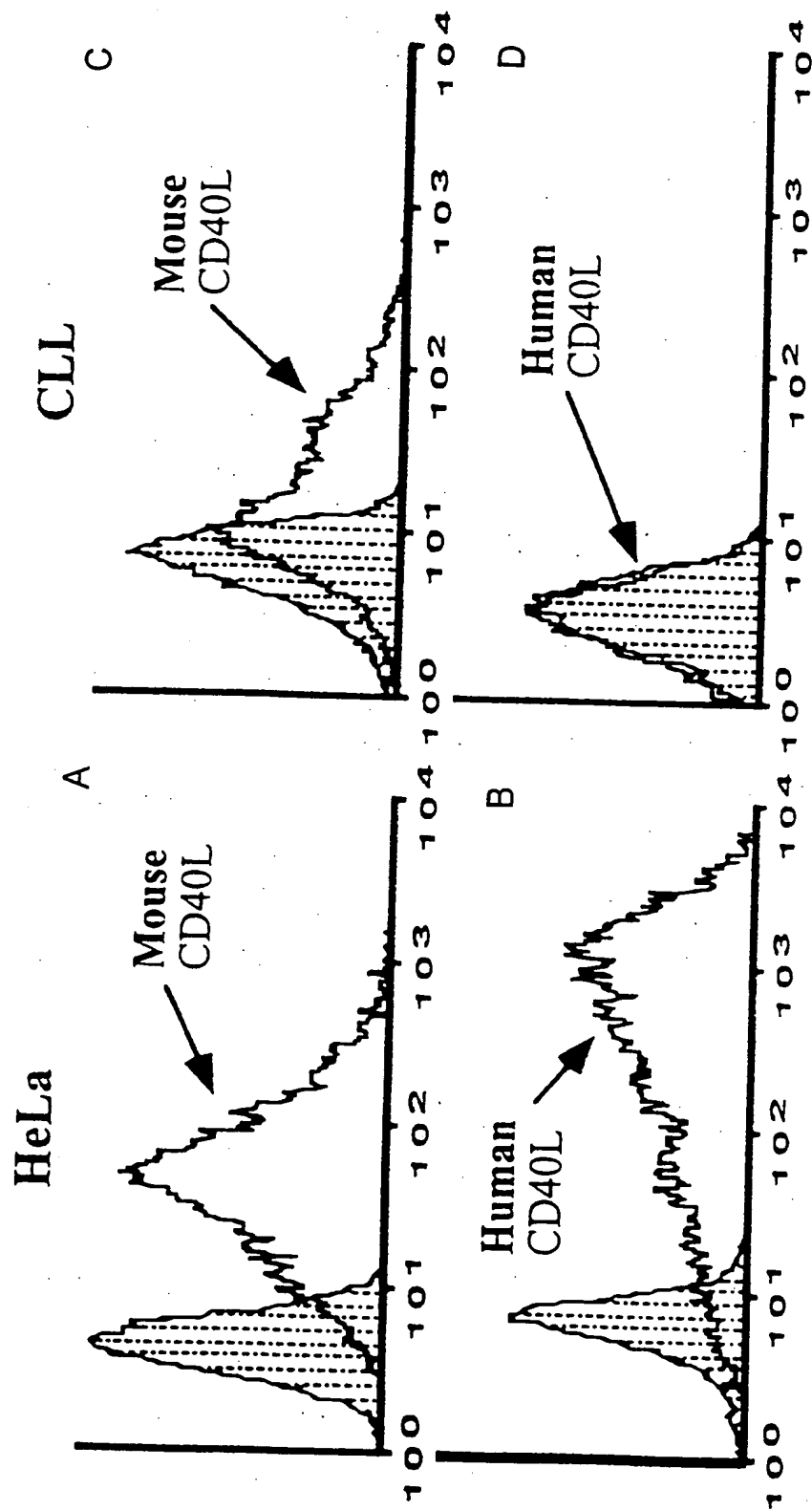
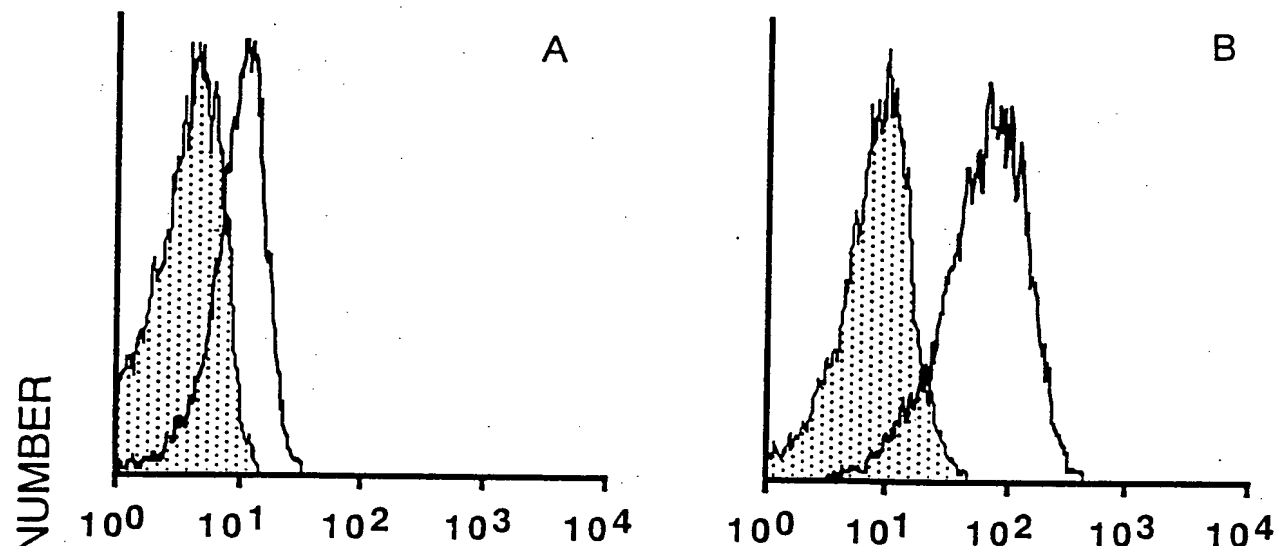


Figure 3

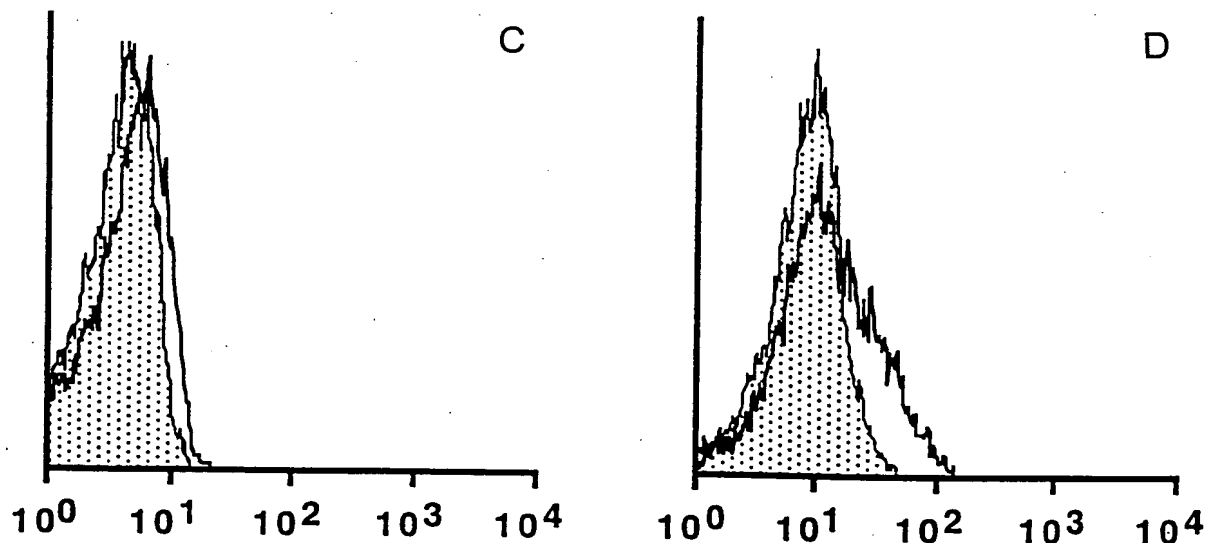
NONINFECTED

+mCD40-L ADENOVIRUS

CD54 EXPRESSION



CD80 EXPRESSION



RELATIVE FLUORESCENCE INTENSITY

Figure 4

Allogenic T cell response to CLL cells transfected with adeno-mCD40L

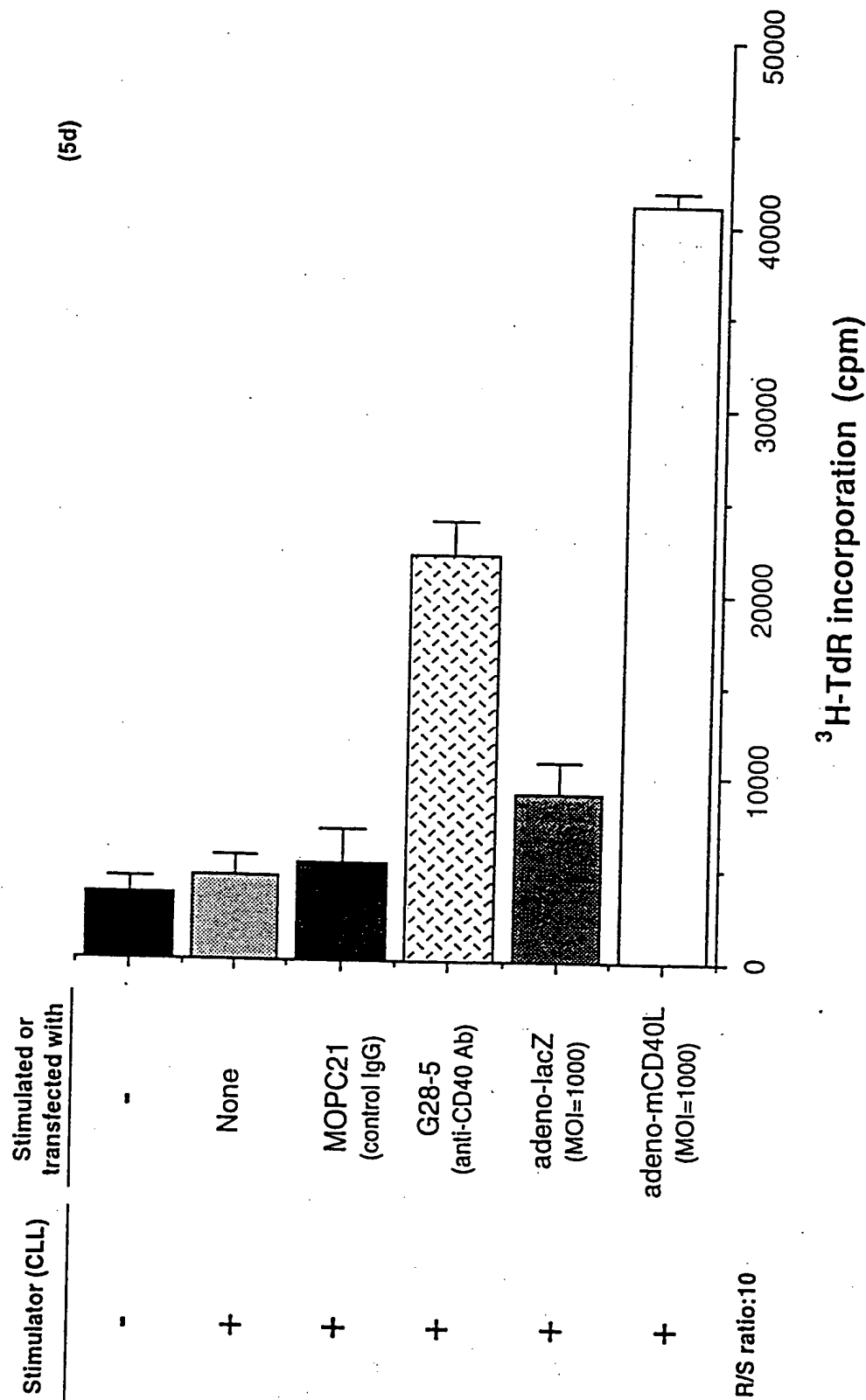


Figure 5

Production of IFN γ by allogenic T lymphocytes stimulated with CLL B cells

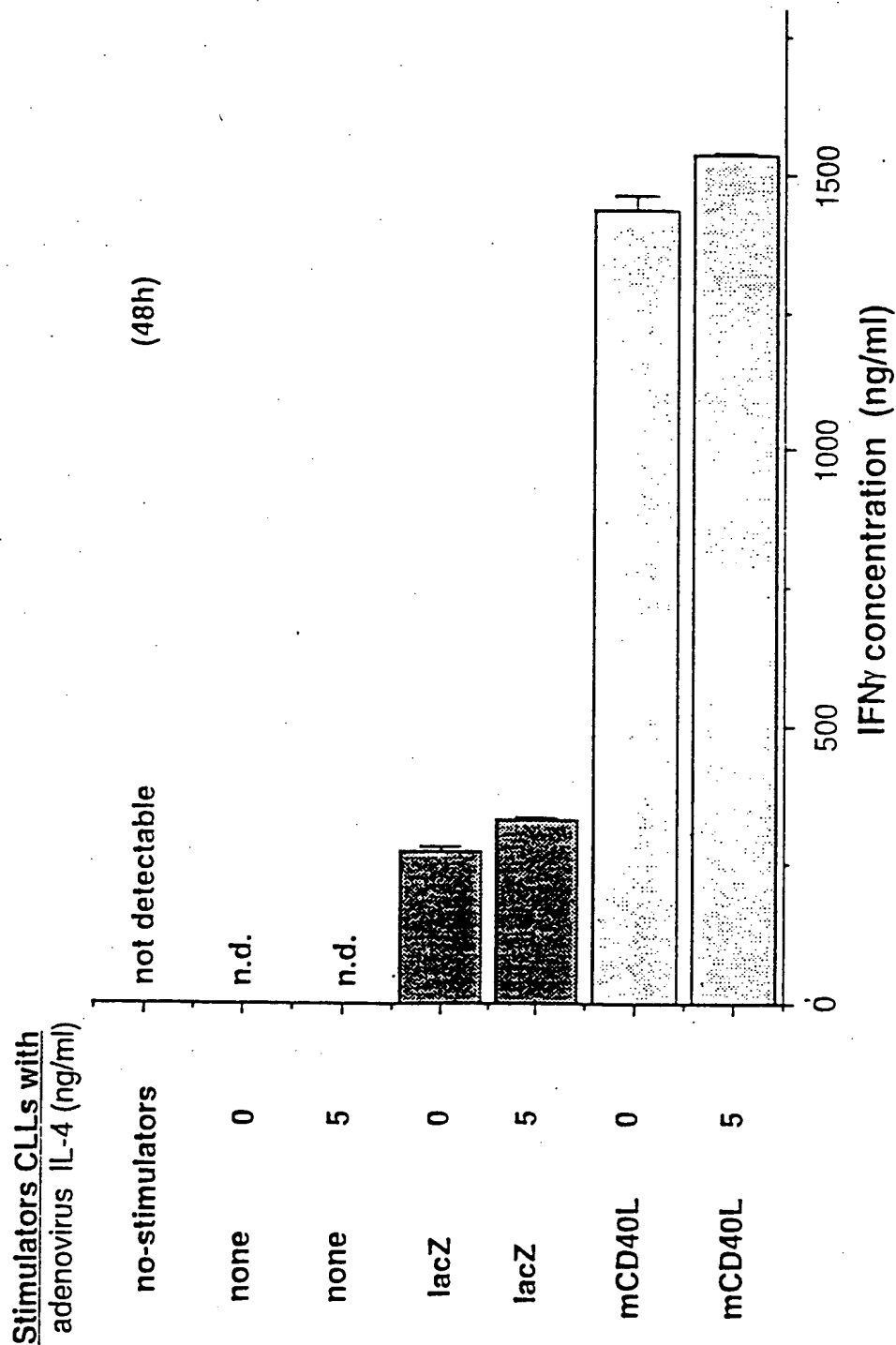


Figure 6

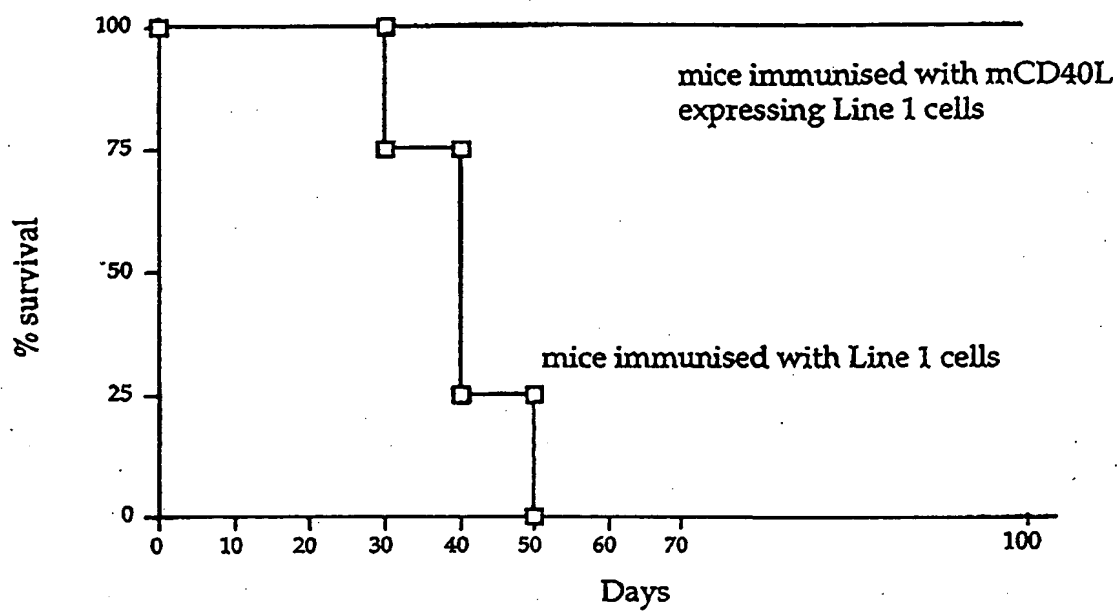


Figure 7

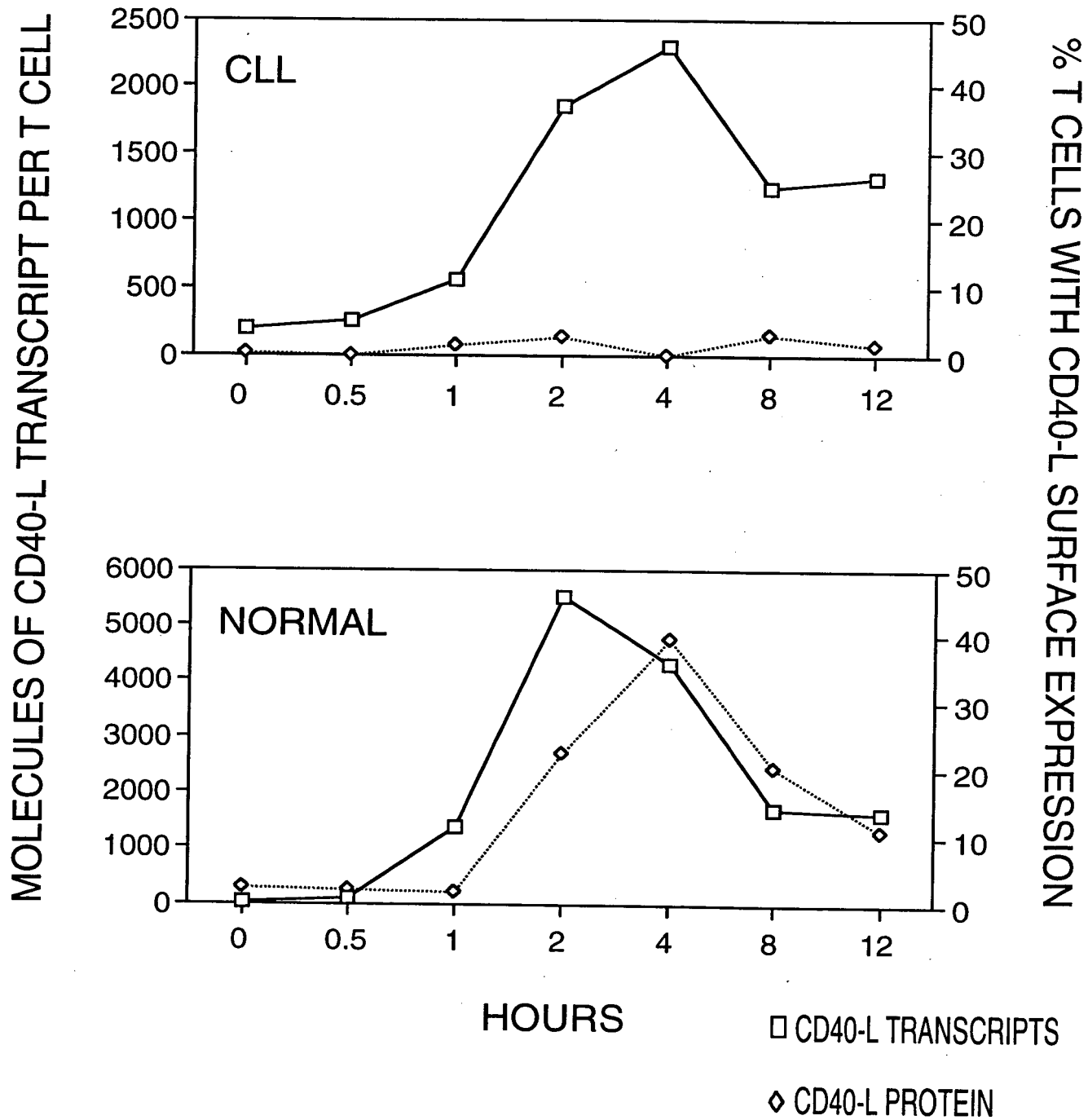


Figure 8

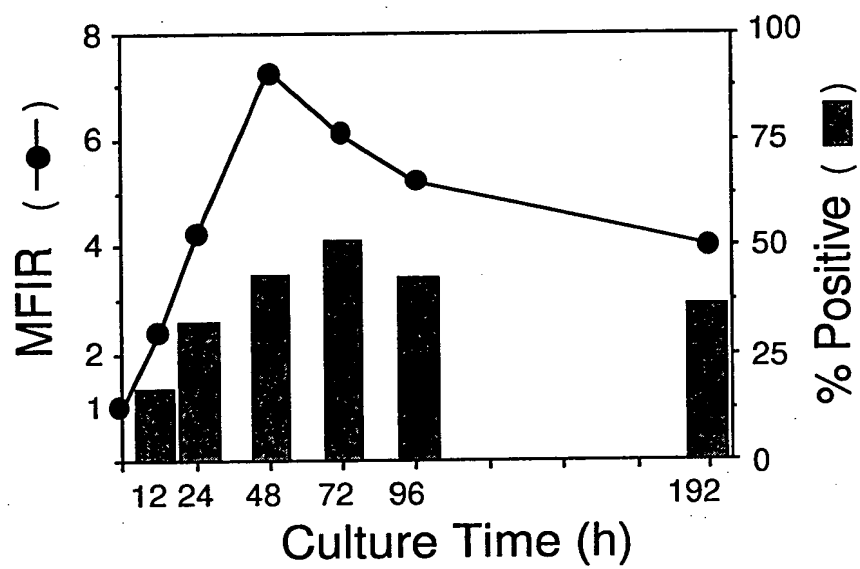
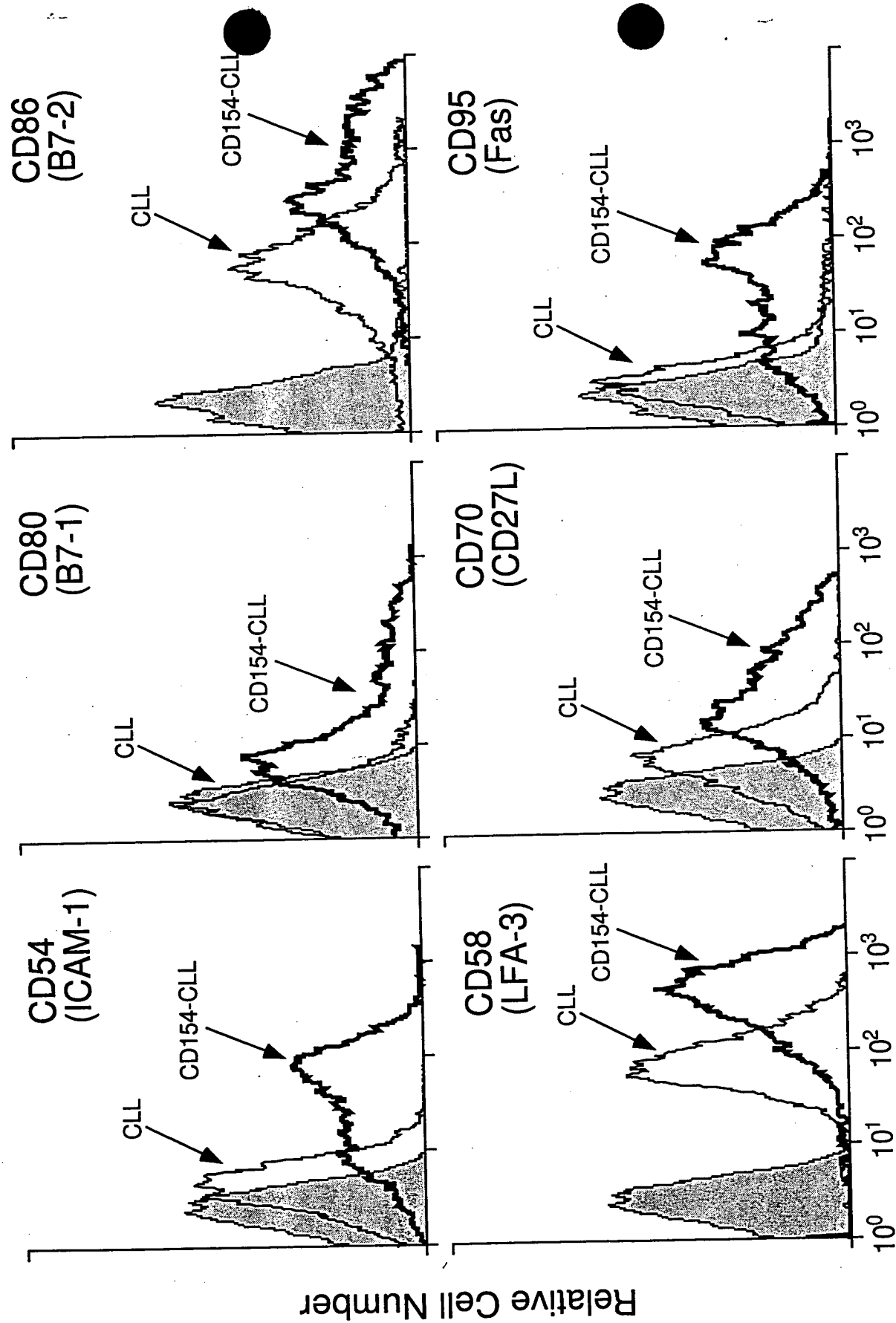


Figure 9



Green Fluorescence Intensity

Figure 10

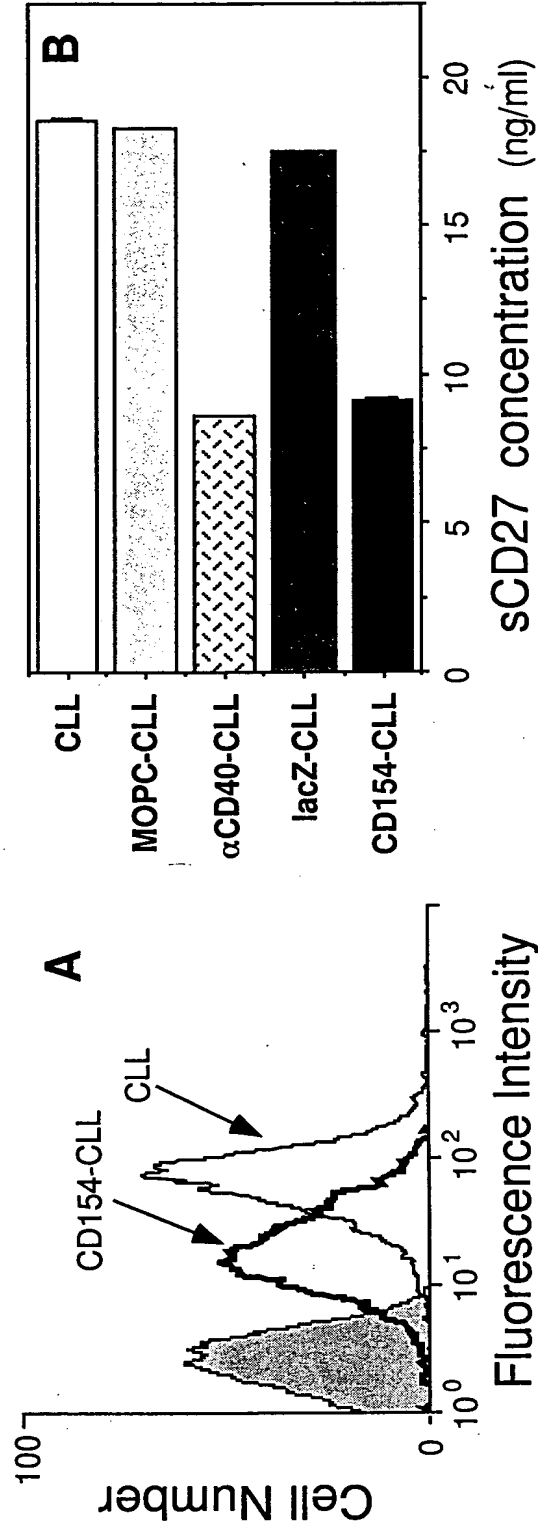


Figure 11

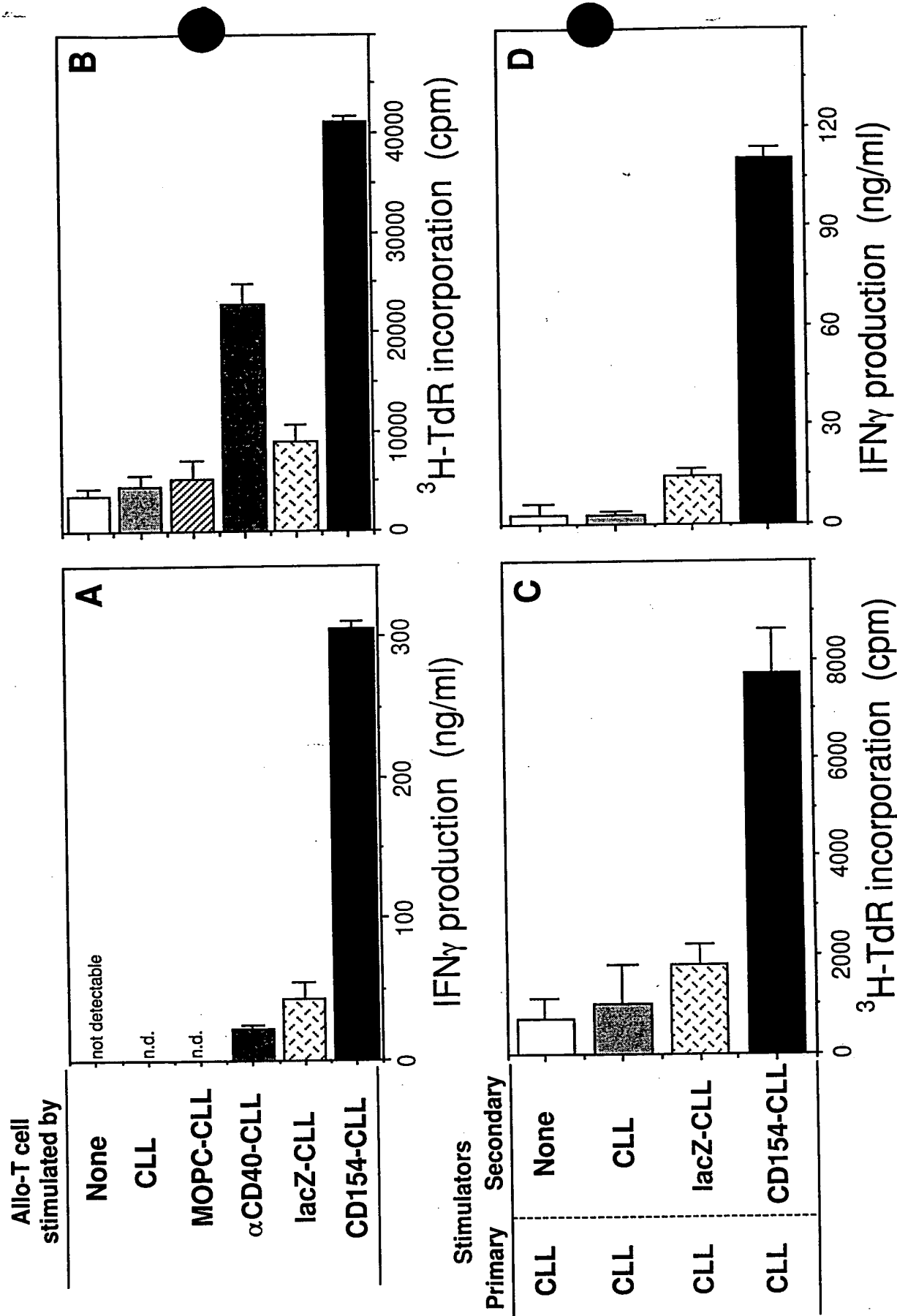


Figure 12

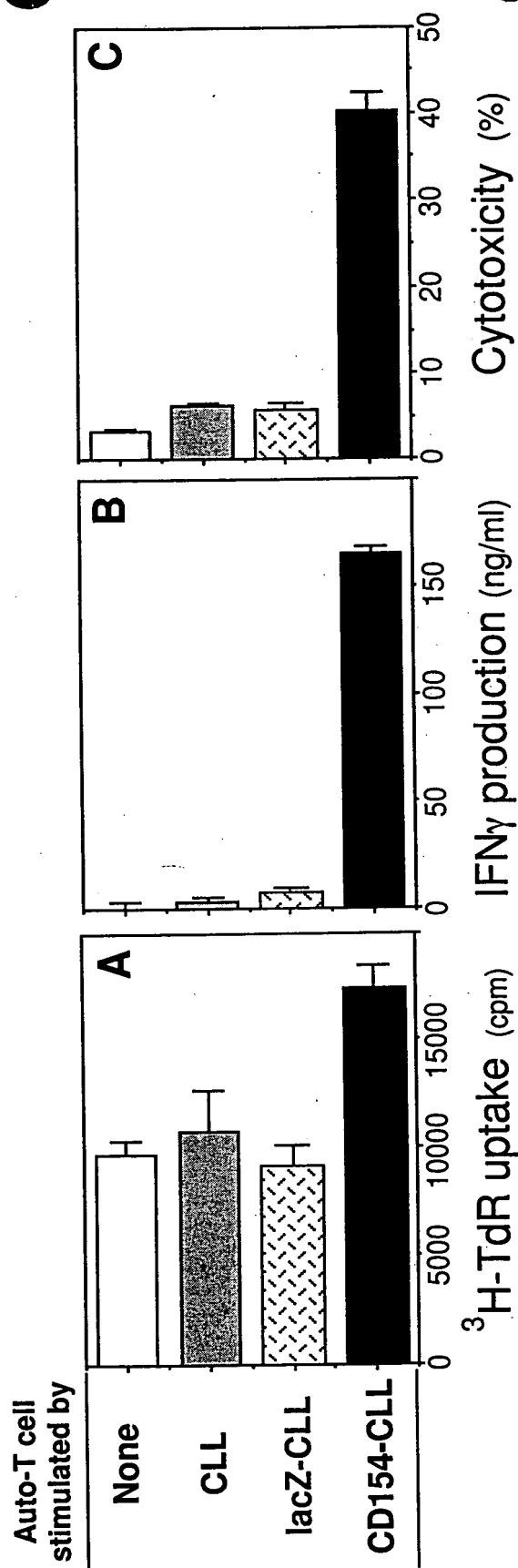


Figure 13

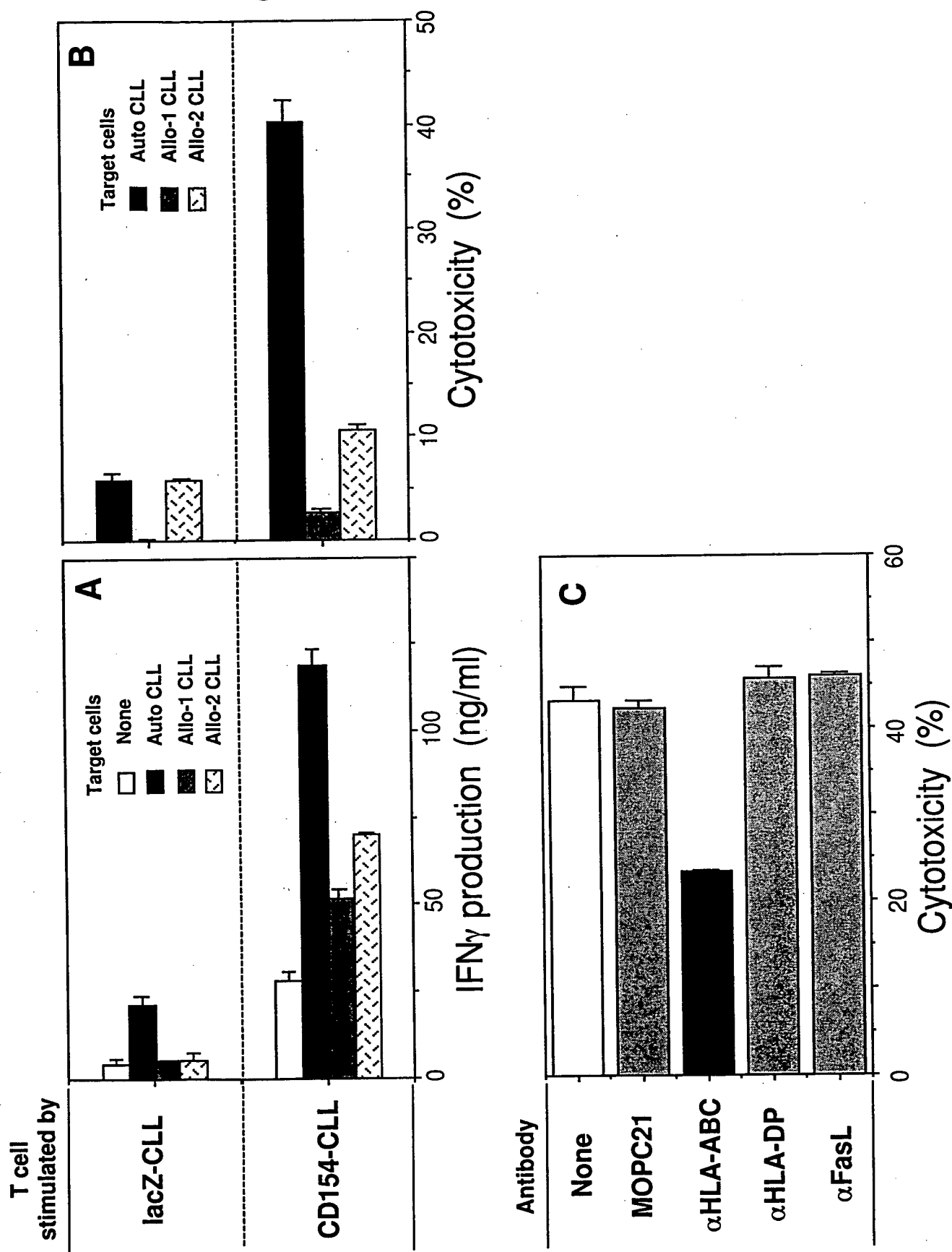


Figure 14

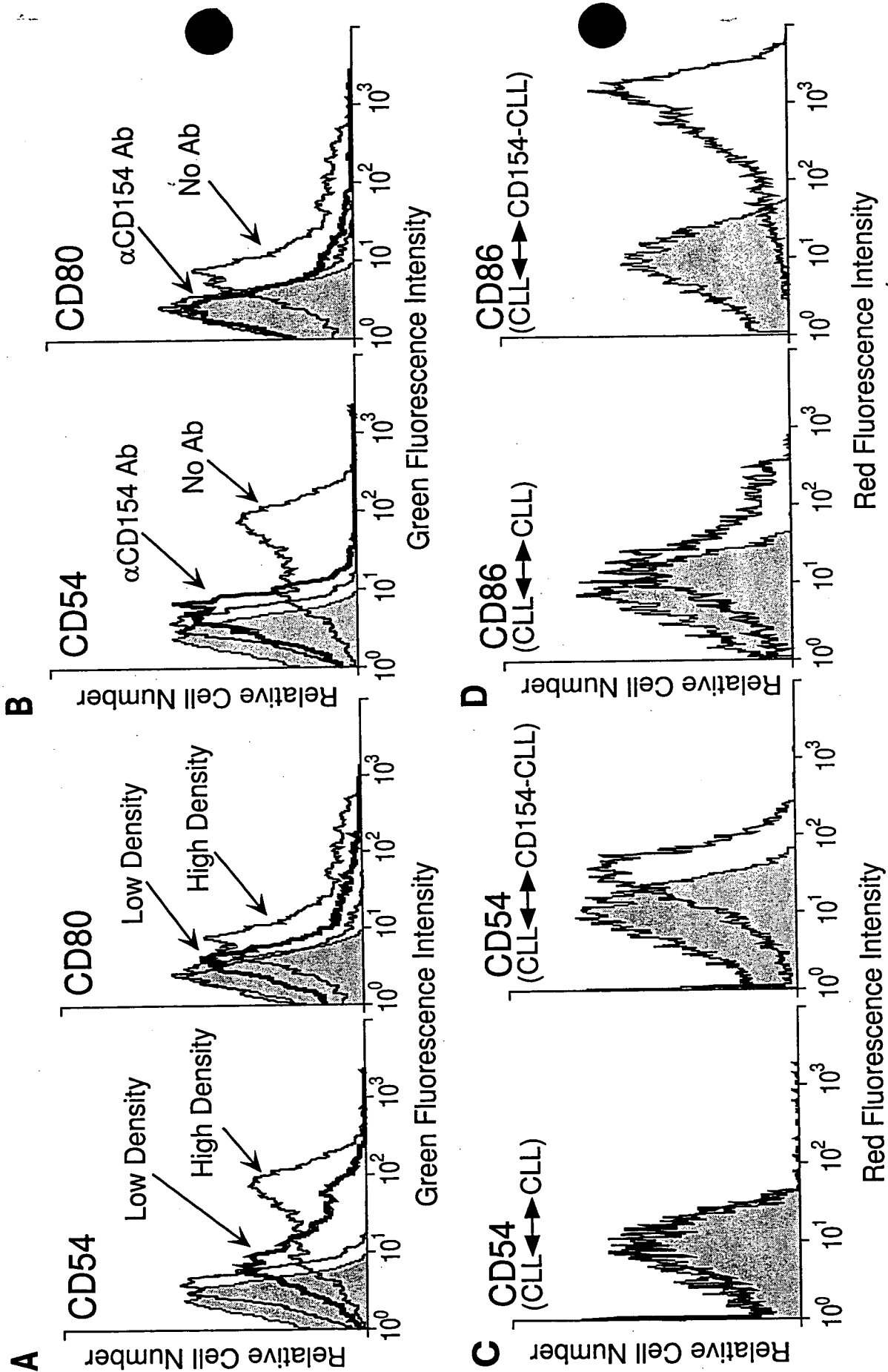


Figure 15

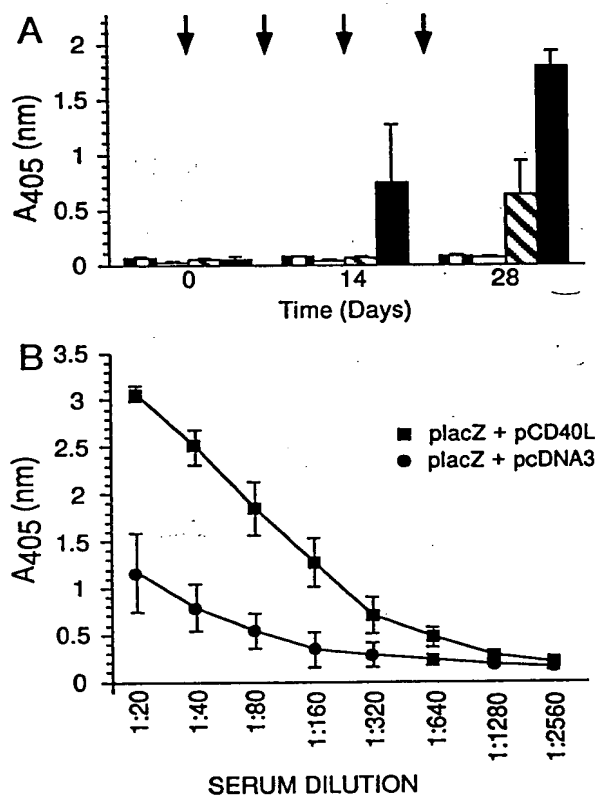


Figure 16

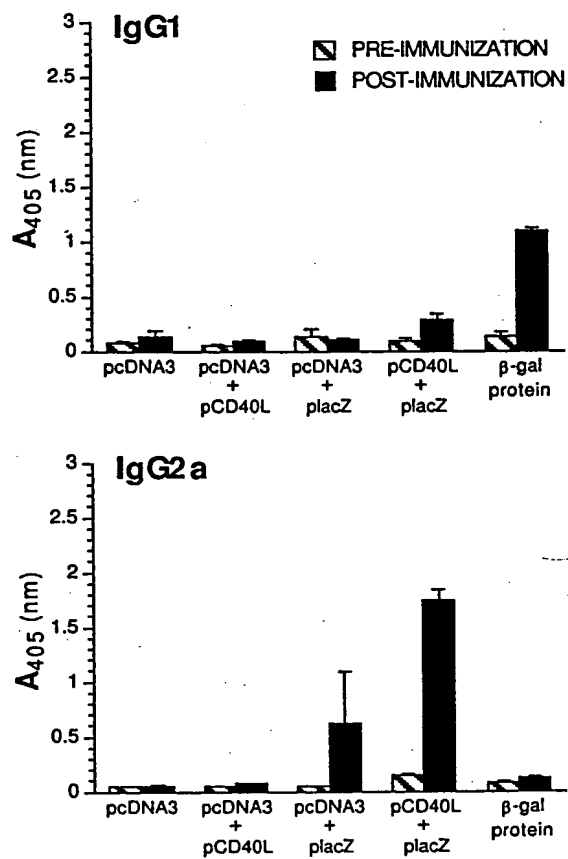


Figure 17

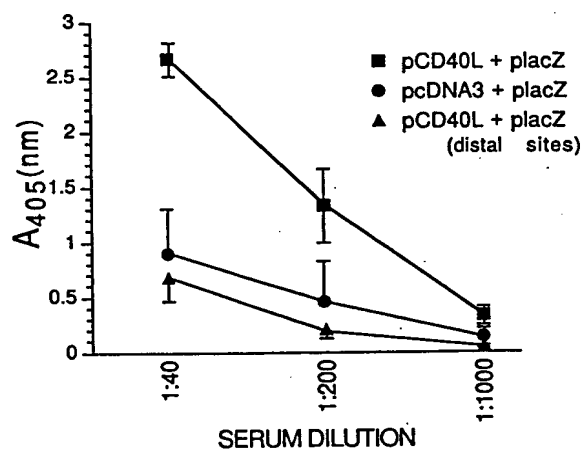


Figure 18

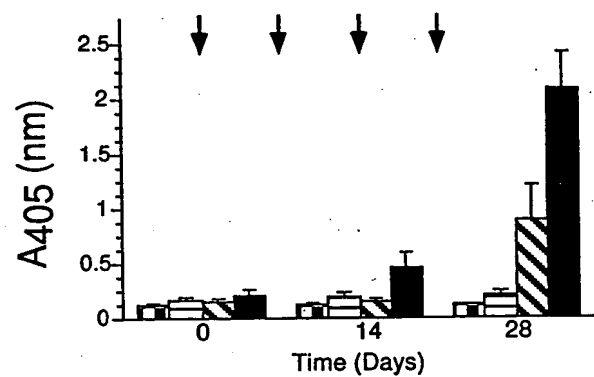


Figure 19

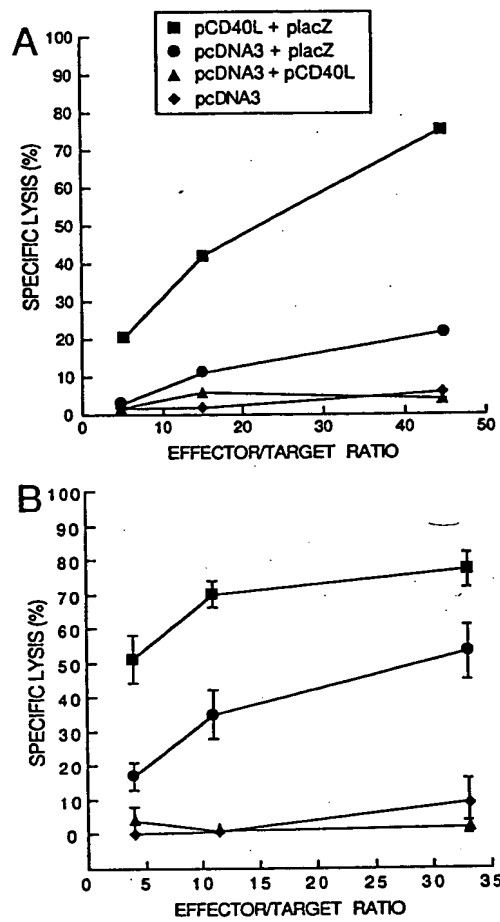


Figure 20

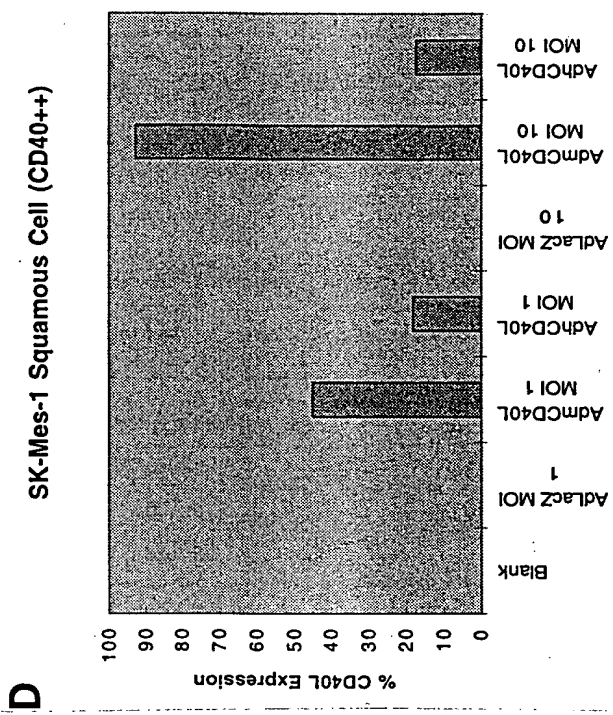
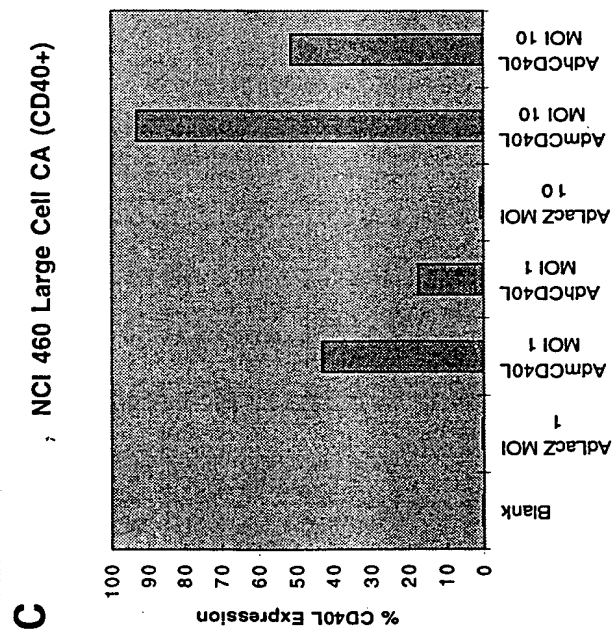
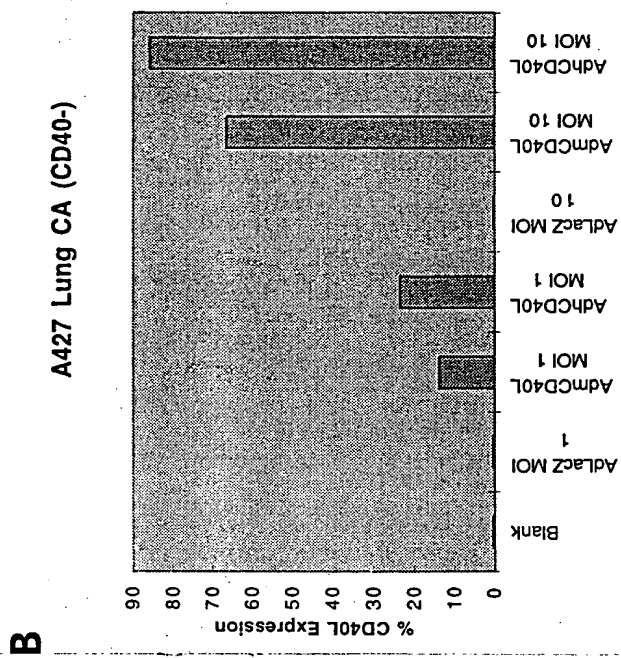
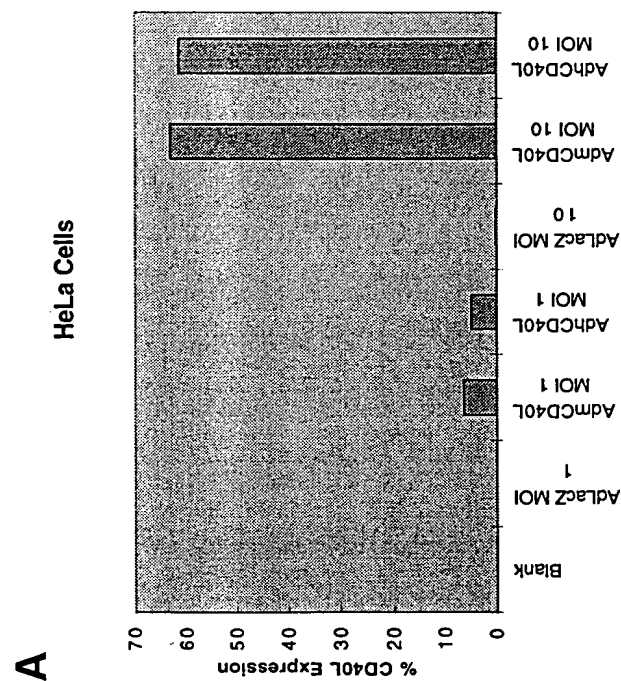
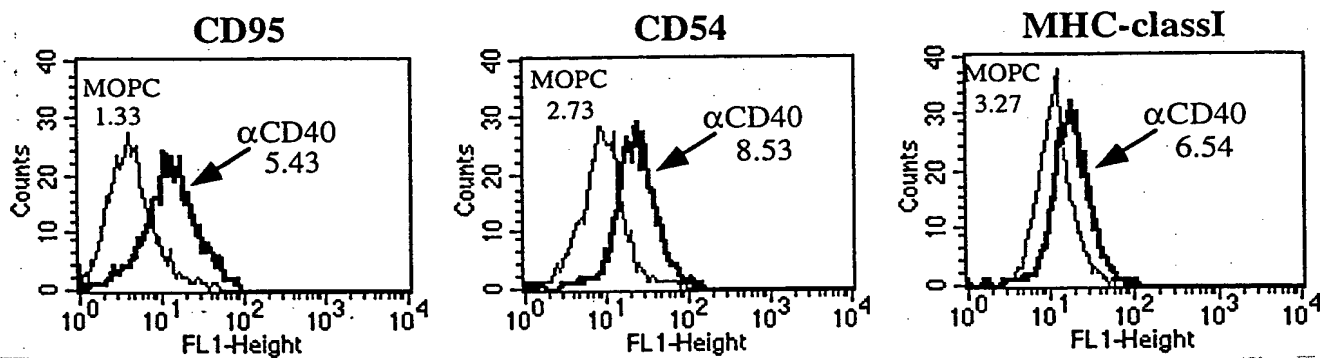


Figure 21

467027 2223680

A



B

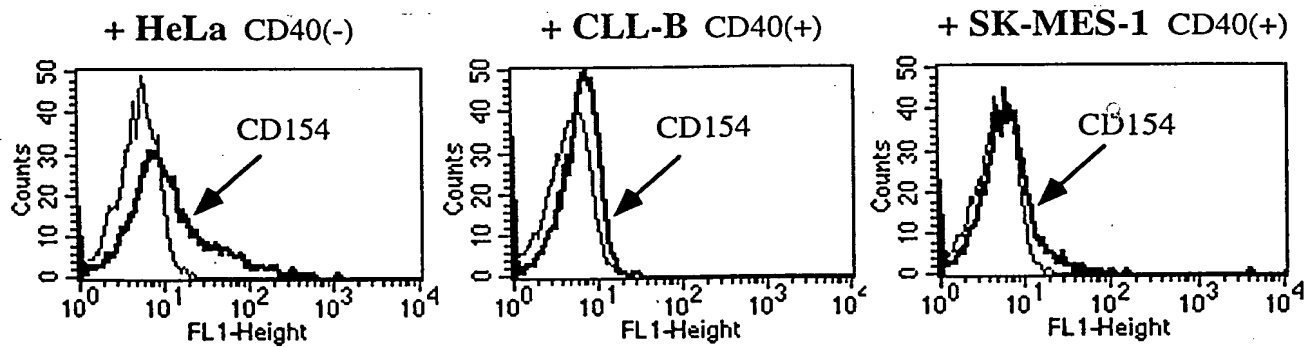


Figure 22

RA SYNOVIAL FLUID AND PLASMA INHIBITION OF FAS-LIGAND

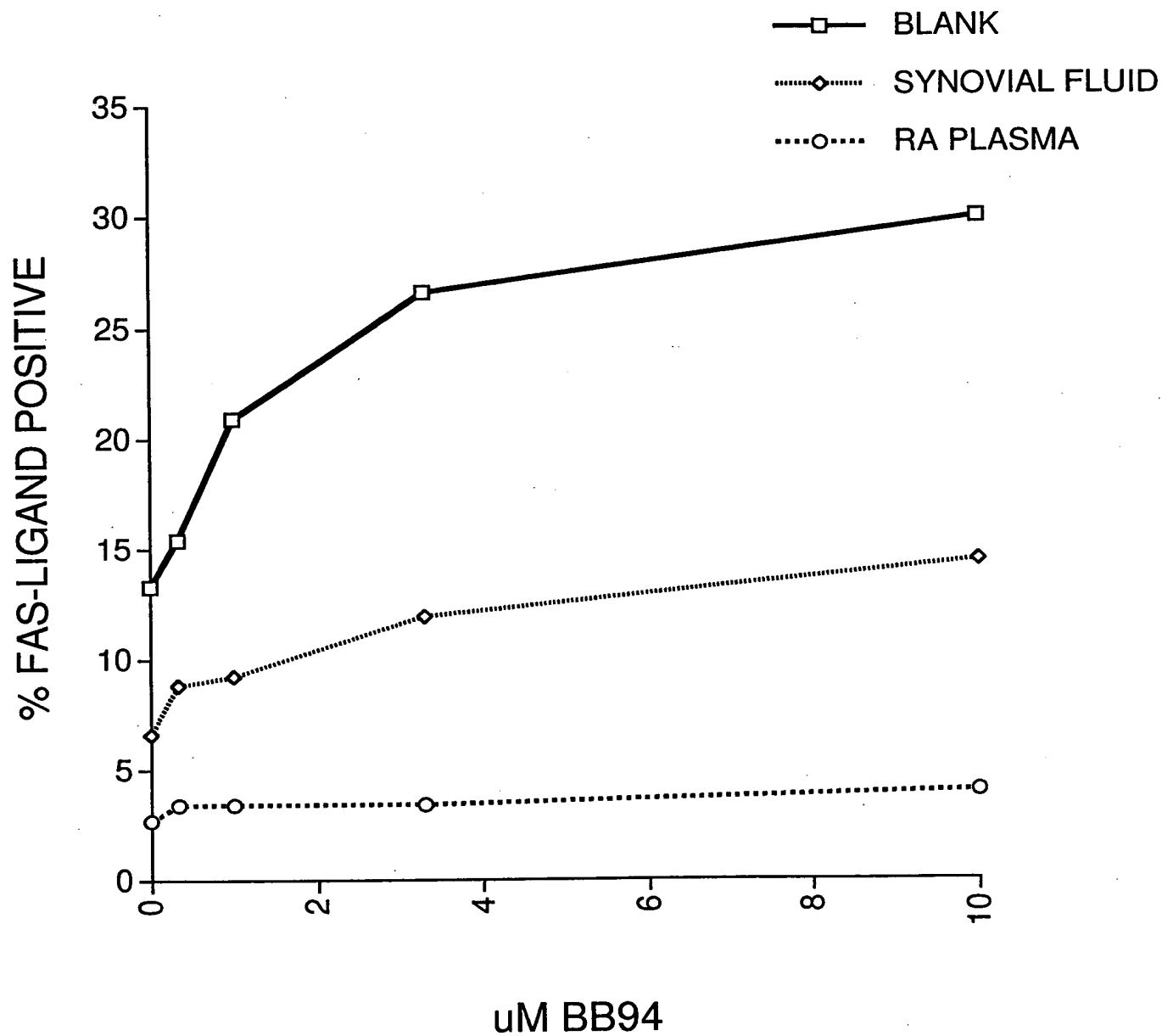


Figure 23

Gene Therapy of Leukemia

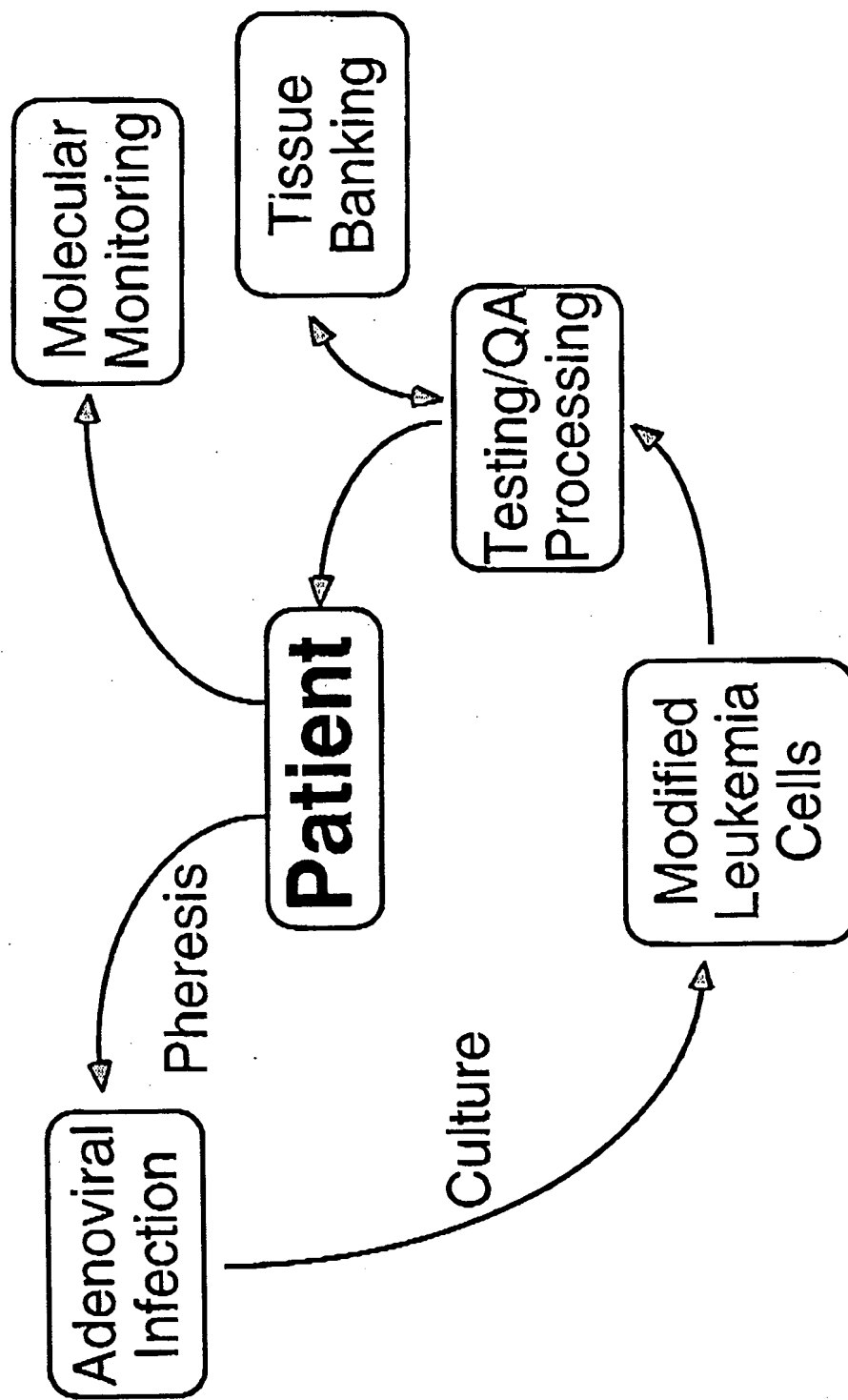


Figure 24

1	MQQPFNYPPYQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPP	50
1	MQQPFNYPPYQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPP	50
51	PPPLPPPPPPPLPPLPLPPLPKKRGNHSTGLCLLVMFFMVLVALVGLGLG	100
51	PPPLPPPPPPPLPPLPLPPLPKKRGNHSTGLCLLVMFFMVLVALVGLGLG	100
101	MFQLFHLQKELAE <u>LR</u> ESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLT	150
101	MFQLFHLQKELAE <u>LR</u> ESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLT	150
151	GKSNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQ	200
151	GKSNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQ	200
201	SCNNLPLSHKVYMRNSKYPQDLVMEGKMMSYCTTGQMWARRSSYLGAVERN	250
201	SCNNLPLSHKVYMRNSKYPQDLVMEGKMMSYCTTGQMWARRSSYLGAVERN	250
251	LTSADHLYVNVSELSLVNFEESSQTFFGLYKL	281
251	LTSADHLYVNVSELSLVNFEESSQTFFGLYKL	281

1	MQQPFNYPPYQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPP	50
1	MQQPFNYPPYQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPP	50
51	PPPLPPPPPPPLPPLPLPPLKKRGNHSTGLCLLVMFFMVLVALVGLGLG	100
51	PPPLPPPPPPPLPPLPLPPLKKRGNHSTGLCLLVMFFMVLVALVGLGLG	100
101	MFQLFHLOKEL <u>AELRESTS</u> QMHTASSLEKQIGHPSPPPEKKELRKVAHLT	150
101	MFQLFR.....FAQAIGHPSPPPEKKELRKVAHLT	130
151	GKSNSRSMPLWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQ	200
131	GKSNSRSMPLWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQ	180
201	SCNNLPLSHKVMRNSKYPQDLVMEGKMMSYCTTGQMWARSSYLGAVERN	250
181	SCNNLPLSHKVMRNSKYPQDLVMEGKMMSYCTTGQMWARSSYLGAVERN	230
251	LTSADHLYVNVELSLVNFEESQTFFGLYKL	281
231	LTSADHLYVNVELSLVNFEESQTFFGLYKL	261

Figure 26

[illegible]

Figure 27

Matrix Metalloproteinase Cleavage Sites

Cleavage
↓

P₄ P₃ P₂ P₁ P'₁ P'₂ P'₃ P'₄

Collagenases

MMP-1 Interstitial Collagenase

P ₄	Ala	Gly/Leu	Met	Glu	Pro	Tyr	Ile	Thr	Arg
P ₃	Pro	Leu	Ala	Asp	Ser	Glu	Gly	Arg	
P ₂		Leu	Met/Tyr	Val/Gly	Ile	Gln/Arg	Asp	Glu	Ala
P ₁	Gly	His	Glu	Tyr	Ala	Phe	Gln	Asn	
P' ₁	Met	Leu	Ile	Gln	Pro	Phe	Ala	Tyr/Val	[not K,E,W]
P' ₂	Arg	Leu	Phe	Trp	Glu	Ala	Val/Gly	Ser	Asn
P' ₃	Met/Ala	Gly	Val	Ser	Glu	Phe	Arg	Pro	
P' ₄	Arg	Lys	Gln	Ile	Gly	Ser	Glu	Ala	

MMP-8 Neutrophil Collagenase

P ₄	Ala	Gly/Leu	Met	Glu	Pro	Tyr/Ile/Thr/Arg	(otherwise same as MMP-1)
P ₃	Pro	Leu					
P ₂	Leu	Gln					
P ₁	Glu	Gly/His	Ala				
P' ₁	Tyr	Ile	Leu	Val	Phe		
P' ₂	Ala	Leu	Trp				
P' ₃	Gly	Met	Ala				
P' ₄	Arg	Gln					

Figure 28A

Gelatinases

MMP-2 Gelatinase A

P ₄	P ₃	P ₂	P ₁	P' ₁	P' ₂	P' ₃	P' ₄
Gly	Pro	Arg	Gly	Leu	Ala/Leu	Gly/Ala	Gln
Ile	Ala	Gln	Asn	Ile/Phe	Phe/Trp	Leu	Arg
Pro	Arg	Leu	Ala	Val/Met	Gly	Ser	His
Arg		Ala	His	Ala	Arg/Gln	Pro	Pro
Leu		Lys	Leu	Glu	His		
		Ile	Tyr	Gln/Asn	Val		
		His		Ser			

MMP-9 Gelatinase B

P ₄	P ₃	P ₂	P ₁	P' ₁	P' ₂	P' ₃	P' ₄
	Pro	Arg	Gly	Leu	Glu	Ala	Thr
		Gln		Ile/Phe	Ala/Leu/Phe	Leu	
Gln/Arg		Leu	Val/Met	Val/Met	Trp/Gly	Ser	
			Ala			Gly	

Stromelysins

MMP-3 Stromelysin 1

P ₄	P ₃	P ₂	P ₁	P' ₁	P' ₂	P' ₃	P' ₄
Asp	Pro	Phe	Glu	Leu	Arg	Ala	Thr
Gly	Ala	Leu/Met	Ala	Phe	Leu/Phe	Arg/Met	
Gln/Arg			Gln/Phe	Trp/Tyr	Trp	Gly	Pro
Leu	Val	Tyr	Asn	Ile	Val	Val/Ile	
Ile	Leu	Pro/Gly/Glu					
Glu/Val							
Leu		Ile	His	Val	Gln	Ser/Asn	Ala
Lys	Thr	Ala	Gly	Met	His/Met	Glu/Thr	
Gly/Asp		Ser	Leu/Pro	Glu	Glu/Ser/Thr	Leu	
Arg	Arg						
Ser/Lys/Phe			Lys/Tyr/Arg				
Pro/Met	Ser/Gly						
Ala/Phe/Gln							

Figure 28B

MMP-10 Stromelysin 2

P⁴ Arg Gly

P₃
Ala
Pro

P₂ Ile His

P₁ His Leu

P¹ **Ile** **Leu**

P₂ Gln Val

P'₃ **Ala** **Glu**

P⁴ Glu Ala

Others

MMP-7

P⁴ Ile Gly Pro

Matrilysin

P₃ Pro Leu

P₂
Leu
Gln
Val

P₁
Glu
Met/Ala
Pro/Gln
Gly

P'
Leu
Ile
Met

P' 2 Arg Met Gln

P₃
Ala
Val/Arg/Met
Gly

P⁴ Gln

Figure 28C